Uke 15 GUI II

FlowLayout, GridLayout og BorderLayout

- Jpanel setLayout(Layoutmanager)

```
import javax.swing.*; import java.awt.*;
public class Layouteksempel {
    public static void main(String[] args) {
        try {
            UIManager.setLookAndFeel(UIManager.getCrossPlatformLookAndFeelClassName());
        } catch (Exception e) { System.exit(1); }
        JFrame vindu = new JFrame("Eksempel paa layout");
        vindu.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        // Vinduet faar en BorderLayout og en foretrukken stoerrelse
        vindu.setLayout(new BorderLayout());
        vindu.setPreferredSize(new Dimension(600, 200));

        // Oppretter et panel med GridLayout for den nordlige vindusregionen
        JPanel gridPanel = new JPanel(new GridLayout(2, 2, 5, 5));
        gridPanel.add(new JButton("Knapp 1")); gridPanel.add(new JButton("Knapp 2"));
        gridPanel.add(new JButton("Knapp 3")); gridPanel.add(new JButton("Knapp 4"));

        // Oppretter et panel med FlowLayout for den soerlige vindusregionen
        JPanel flowPanel = new JPanel(new FlowLayout(FlowLayout.CENTER));
        flowPanel.add(new JLabel("FlowLayout")); flowPanel.add(new JTextField(10));

        // Legger til panelene i nordre og soendre vindusregion
        vindu.add(gridPanel, BorderLayout.NORTH);
        vindu.add(flowPanel, BorderLayout.SOUTH);

        vindu.pack(); vindu.setLocationRelativeTo(null); vindu.setVisible(true);
    }}
```

ActionEvent

interface ActionListener

- actionPerformed()

BorderFactory

- createLineBorder(Color c)

BorderLayout ext LayoutManager

- String CENTER, EAST, NORTH, SOUTH, WEST

Color

- Color BLACK, BLUE, ...

Dimension

FlowLayout ext LayoutManager

Font

- int BOLD, PLAIN
- String MONOSPACED, SANS_SERIF

GridLayout ext LayoutManager

JButton ext JComponent

- addActionListener (ActionListener a)

JComponent

- setBackground(Color c)
- setFont (Font f)
- setForeground(Color c)
- setOpaque(boolean b)
- setText (String t)

JFrame

- add (JComponent c)
- int EXIT_ON_CLOSE
- pack()
- setDefaultCloseOperation (int i)
- setVisible (boolean b)

JLabel ext JComponent

JPanel ext JComponent

- add (JComponent c)
- setLayout(LayoutManager m)

interface LayoutManager

Model - View - Controller

Kodeksempel!

Oppgaver / Trix / spørsmål